



Montana Department of Transportation
PO Box 201001
Helena, MT 59620-1001

MEMORANDUM

To: See Distribution
From: Kevin Christensen, P.E.
Construction Engineer
Date: October 29, 2008
Subject: Supplemental Specification Revisions: Standard Specification, 710.03
Prequalification and Certification (Powder Coating, New Subsection)

The Construction Administration Services Bureau is proposing an addition, 710.03 Prequalification and Certification (Powder Coating), following the Standard Specification Revision Process outlined in the Construction Engineer's Memorandum dated May 2008. The following information is provided.

1. Section 710.03 Prequalification and Certification (Powder Coating) will be added.
2. The Proposed Drafts of the change is attached along with this memorandum.
3. Revisions to the Standard Specifications are needed to address the addition of powder coating requirements.
4. Those impacted by the change include:
Construction, Contractors, EPM's
5. The following individuals were consulted and/or involved in developing the proposed revisions:
CAS / CES Bureau, Materials

*It is requested that written comments on **the proposed revisions only**, be returned to mdtspecifications@mt.gov no later than November 28, 2008.*

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710.03 PREQUALIFICATION AND CERTIFICATION.

The manufacturer of the coating shall provide certified test results of the tests shown below. There test results are to be from recent tests conducted by an Independent Professional Testing Laboratory. These certified test results and required samples must be submitted for approval. Only coatings approved are permitted to be used.

TESTS

Test Name	ASTM Designation	Specification Limits
Salt Spray Test	D1654	Rating Number Minimum 6 (from Table 2)
Impact Test	D2794	Minimum 80 in.-lbs
Chemical Resistance Test	D1308	Original Property Obtained
Cross Hatch Adhesion Test	D 3359	5A or 5B Minimum
Hardness Test	D3363	2H
Bend Test	D522	180 degree Bend ½ inch diameter mandrel with No Breaks Flaking or Cracks
Weather Resistance	G53	1,000 hours No Film Failure
Thickness	G12	3 mil Minimum
Abrasion Taber Abraser	D1044	1,000 gram 1,000 cycles 100 mg maximum weight loss

Contractor will provide two 4" x 4" x 24 gage coupons along with the test results of the coated material used to the Project Manager. The coating must be representative of expected quality and color of coatings from a production line.